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ABSTRACT OF THE DISCLOSURE

An extensible fluid permeable substrate having at least one direction of extensibility in an X-Y plane is provided with improved retraction to make the composite material suitable for disposable garment applications with minimal application of coalesced elastomeric materials. A pattern of untensioned coalesced elastomeric stripes is applied on an X-Y plane surface of the substrate in low add-on amounts of between about 20% to about 100% of the substrate basis weight to make the composite material. The longitudinal axes of the coalesced elastomeric stripes are oriented substantially along the direction of substrate extensibility and desired retraction of the composite material. By applying the minimal amount of elastomer necessary in an open pattern, the economical composite material also avoids negative by-products of elastic coatings or films such as bad hand, bad drape, loss of fluid transfer or intake ability and lack of breathability. In a particular embodiment the coalesced elastomers are applied as electrospun microfibers yielding a very low add-on rate with fluid permeable coalesced elastomer areas while providing improved retractive properties to the substrate.



Lond Lone # 50%	ъ	210.974	212451	210,054	218.703		222	88.82	88.02		219.291	21.628	214.511		210.6	886	21273		23821	28.97	224636	and	21508	22 193	213.889	**************************************
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	%	36.7	35.538	38.025	35.539		34.27	8.1 8	33.689		33.206	32688	32,238		22.775	3388	33.639	AND RESERVED.	31.089	31.28	30.633	The state of the state of the state of	32333	32063	31.805	(100m) PATE TO A MARCHA CO.
Immed Set % Oyc.1	8	35.387	34.189	34.692	35.341		32,512	32.37	31.867		31.151	32.488	30.132		30.714	22,119	31.733		28.52	28.817	28.086	PERCENTER AND	30.133	23.761	29:602	SECTION OF CASE AND ADDRESS.
4 Hyser Loss Oyc 2	*	633	61.6	61.2	628		59.6	58.8	88		582	57.9	25		56.7	57.8	58.3	STATE OF STATE OF	58.4	57.3	58.1	THE REAL PROPERTY.	57.2	57.9	9.99	THE PERSON NAMED AND ADDRESS OF
TEA (Per) Ope 2	Amp	0.032	0.042	0.0 40.0	0.034		0.045	0.051	0.089		0.054	90.0	0.08		0.064	0.066	90:0		0.054	0.07	0.07	Combined and construction of the	0,033	0.086	0.077	1
TEA (EA) O,c 2	rama,	9800	0.11	0.18	0.091		0.112	0.125	0.14		0.128	0.142	0.158		0.147	0.13	0.119		0.155	0.164	0.168	Proprieta populario de la	0.146	0.154	0.177	
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1 250 th 050 than	ď	191	88	88	82		88	88	1351		916	88	1092		휟	226	83	を対すると	1016	1071	<u>5</u>	STREET, STREET	1831	1053	1219	217
1 250 ch 00 Bason	Þ	೫	188	4	ਲ		ಜ	æ	88		ક્ષ	116	23		107	12	83		5	8	88	STREET WAS TREET OF	115	130	4	}
WHysier Loss Opc 1	%	828	988	81.8	832		81.1	81.2	81.3		78.9	80.5	79.6		79.3	80.5	80.9		81.2	808	608	A CONTRACTOR	80.4	80.7	8 8	3
TEA (Pet) Opc 1	E E	0.033	200 0	0.0 24.0	9000		0.00 0.00	9300	900		0.089	0.083	2200		0.089	0.057	0,082		0.089	0.072	0073	THE PROPERTY OF THE PARTY OF TH	9800	8800	8850	2000
TEA (EA) Cyc1	E P	0. 194	0.255	0.227	0.208		0.38	0.232	0333	1000	0.273	0.333	0.353		0.332	0233	0.272		0.388	0373	0.385	A STATE OF THE PARTY	880	0.35	800	3
Loed@SDDO-1	ъ	826	182	123	188		8	851	83	The Property of the	88	88	88		श्र	88	8	· · · · · · · · · · · · · · · · · · ·	88	8	98		8	8	ξ	<u> </u>
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sect best	8	Automotive Company of	218.854	216.312	207.838	A. 17.	226.497	211.206	210.252		205.988	217.485	207.233		214.69	224.35	211.488	Marie 1885	219.88	214.45	
MIND MANAGE	×	and the second second second	35,629	32.338	33.914		37.13	34.616	3333		33.838	33.37	34.722		33.954	33.019	34.788		33.648	왕 瑟	
med of \$ Cyo.	*		34.324	22 TRZ	32,315	新加州的	35.958	33.075	2747	14.5	32348	31.77	±61.0€	的影響的	22333	31.233	33.349		31.996	32586	
TEA (Pet) Cyc 2 14 Hydrar Loss Cyc 2 1477 ad Str 16 Cyc 1 1477 ad Str 16 Cyc 1 Loss at 50%	· *	The second second second	59.2	8	58.6		83	59.3	58.5		57.8	58.1	583		58.2	57.1	59.4		58.9	57.2	
	E	A STATE OF S	0.037	0.053	0.039		0.025	0.042	0.048		0.058	0.035	0.046	A CONTRACTOR	0.063	0.062	0.043	10 Contract	0.049	9900	
TEA (BA) Op. 2	Ē	(September 1997)	0.09	0.132	0.143		930.0	0.102	0.116		0.138	0.132	0.112		0.126	0.144	0.107		0.118	0.131	
Load @ 50 Ch Oye 2	ъ	AUGUSTANIA PARTORES	299	8 4	919		514	88	85		828	123	792		814	88	712		747	882	
Lord @ 20 Ch Oc 2 Lord @ 50 Ch Oc 2 TEA (EA) Oc 2	Q	STATE STREET, STATE OF STATE OF	-11	-16	-13	Will state of	-14	-10	q,		-12	φ	-12		ထု	φ	-12		φ	о -	
Loed @ 50 to Opc 2	ø	distribution of the second	282	255	<u>\$</u>		611	762	83		\$3	97.1	88		8 8	1921	83		873	\$	•
Cord @ 30 to Ope 2	ď	Contraction of the second	8	88	8		83	83	ė		88	88	61		æ	ģ	61		ಙ	R	
*Hade Loss Oyo.1	. %	e in the second	78.5	826	81.3		79.2	89.1	808	· · · · · · · · · · · · · · · · · · ·	81.4	90.6	7.67		7:08	8	83		80.9	78.9	•
TEA (PR) Cyc.1	Ę,	Section Section	0.039	0.082	900		0.027	0.04	900		0.03	950.0	930		9300	0,082	0.043		0.051	0.039	·
TEA (BA) Ope 1	E S	TAKEN CARRES	0.183	0.301	0.319		0.129	0.22	0.382		0.317	820	0.248		0.285	0.311	0.239	建大大型	0.27	0.278	•
130 P 0 P 0	ď	THE PROPERTY OF	8 8	88	88		83	202	792		83	798	787		88	919	242		777	88	
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1900日 19	 b	THE PARTY STATE OF THE PARTY.	83	88	614	THE REAL PROPERTY.	<u> </u>	88	8		611	88	74		ස ස	8	4		512	\$	٠
Match etbo	***	CENTRAL PROPERTY	10.0%	10.0%	10.0%		50%	50%	50%		25%	25%	25%		7.59%	7.5%	7.5%		80%	9.0%	9:0%
E C	ø	ALCONOMICS IN	-	2	8		-	2	6		-	2		3	-	2	<u>س</u>		-	7	3
II	\mathbb{Z}			53	り		:	Ħ	4			53	8			53	Ь	2	9	3 6	ıc

Table 2.

Table 3

	Elastomer add-on	% Hyster Loss Cyc 1	% Reduction ve Control Immed Bet % Cyc 1	immed Set % Cyc 1	% Reduction vs Control	Immed Set % Cyc2	% Reduction vs Control	Modulus of Elasticity	% Improve ve Control
	ş	*	*	*	\$	*	*	lad	×
louno	%0	83%	N/A	35%	N/A	%9E	N/A	21	N/A
				1000				8	
qz f signra 8	35%	81%	2%	32%	10%	34%	%9	51	% Ohl
	AND AND AND							V 0 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	
dscalqma	40%	%08	3%	32%	11%	33%	7%	•	
						The second second second			
qeçəldus	%09	81%	%€	30%	16%	32%	11%	. 64	∑ <u>∞</u> 0%
s									
mple2sp	%\$9	%08	4%	31%	14%	33%	8%	70	236)%
s									
dsyaldum	100%	81%	2%	28%	50%	31%	14%	121	470 %
S									

Mechanical Properties of Screen Printed Materials

% Improve vs Control %	N/A		40%		%08		100%	•	100%
Modulus of Elesticity psi	21		31		39		43	· •	44
% Reduction vs Control %	N/A		%9		2%		%8	%9	4%
immed Set % Cyc2	36%		34%		35%		34%	34%	35%
% Reduction vs Control %	N/A		%8		4%	The second second	%6	10%	%9
Immed Set % Oyc 1 %	35%		32%		34%		32%	32%	33%
% Hysur Loss Cyc 1 % Reduction vs Control Immed 8s1 % Cyc 1 % Reduction vs Control Immed 8s1 % Cyc 2 % % % % % % %	N/A	10.00	3%		3%		2%	%7	2%
% Myster Loss Cyc 1 %	83%		81%		%08		81%	%08	81%
Elastomer add-on wt%	%0		2.5%		%9		7.5%	% 6	, 10%
	Солто		səgəldmeS	*	es l'alqma2		Sempledes	seOf algras	Sample6es

Table 4

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